

## ABSTRACT OF THE INVENTION

A signal sampling circuit of a tilt sensor, suitable to be used in a tilt sensor, is described. The signal sampling circuit has a signal-generating module, a sample and  
5 hold module, and a differential module. The signal-generating module regularly generates a plurality of level-measuring signals in equal intervals, and alternately and multi-directionally sends them to the first input pin and the second input pin of the tilt sensor in turn, respectively. Then, the tilt sensor outputs in order the corresponding first and second output signal. The sample and hold module samples and holds the first  
10 and the second output signal in turn, and outputs the first and the second sampling signals, respectively. The differential module receives and differentiates the first and the second sampling signals, and outputs a level-estimating-result signal to a micro controller unit to derive the tilt information of one direction.

15

20